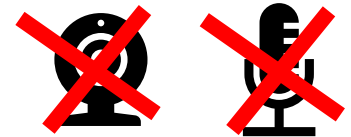


BEST PRACTICES DURING WEBINAR

TO ALL PARTICIPANTS:

- **Please mute your microphone and switch off your camera during the presentations.**



- **During Q&A, make sure your microphone is working & unmute when you start to speak. You can also ask your questions through the chat box.**
- **Speak slowly and clearly.** It is sometimes difficult to understand when the audio quality is not good.

Thank you for your understanding!

WEBINAR

“Enhancing Concrete Durability”

Tuesday 15 February 2022

Introduction

Luc Rens, Managing Director, EUPAVE

Created at the end of 2007 the European Concrete Paving Association has for mission to...

- Advocate and enable wider use of cement and concrete applications in European transport infrastructure by
 - engaging with EU, national and local decision makers,
 - disseminating technical know-how and communicating benefits and
 - promoting innovation and best practices in the sector.

Our activity areas:

- Roads
- Safety Barriers
- Roundabouts
- Industrial and Port Areas
- Tunnel pavement
- Airfields
- Dedicated Bus and Tram Lanes
- Concrete Rail Slab Track
- Soil Stabilisation and Pavement Recycling



OUR MEMBERS AND PARTNERS ARE...

- Cement companies
- National and international cement and/or concrete associations
- Associations of contractors; associations of designers, engineering bureaus
- Equipment manufacturers
- Road construction engineers
- Research institutes and academia
- Contractors
- Designers



OUR 6 WORKING GROUPS

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Best Practices WG

To exchange know-how and best practice between industry stakeholders.

Environmental Strategy WG

To promote the environmental benefits of concrete pavements.

EU Advocacy WG

To better advocate concrete pavements at EU level

Concrete Safety Barriers WG

To follow the standardisation activities and to monitor developments on road restraint systems

Concrete Pavement Statistics WG

To gather data on European concrete roads

Communication Tools WG

To develop EUPAVE's website, newsletter and other tools.

JOIN AS MEMBER OR PARTNER

To support concrete pavement development and get support in developing and building concrete pavements:

JOIN EUPAVE as a member or partner

Find more information about our activities on www.eupave.eu or contact info@eupave.eu



Previous Webinars on Best Practices

- 7 February 2019
 - “Concrete Pavement Recycling and the Use of Recycled Concrete Aggregates in Concrete Paving Mixtures”
- 19 May 2020
 - “Current U.S. practices for successful design and construction of concrete overlays”
- 23 June 2021
 - “Towards a low-carbon & circular concrete”



Previous Workshops on Best Practices

- 1st : 26 May 2015
 - Achieving and maintaining the evenness of concrete pavement
- 2nd : 17 February 2016
 - Joints in concrete pavements
- 3rd : 23 February 2017
 - The right concrete mix for the right surface
- 2018: Berlin, 13ISCR
- 4th: 18 June 2019
 - Hydraulically Bound Base Layers and RCC pavements
- 5th: 14 October 2020
 - Concrete Pavement Preservation
- 6th: 20 October 2021
 - Pervious concrete pavements: an overview of European experiences



- EN 1504-2:2004

Products and systems for the protection and repair of concrete structures
- Definitions, requirements, quality control and evaluation of conformity -
Part 2: **Surface protection systems for concrete**

This Part of prEN 1504 specifies requirements for the identification, performance (including durability aspects), safety and evaluation of conformity of products and systems to be used for surface protection of concrete, to increase the durability of concrete and reinforced concrete structures, as well as for new concrete and for maintenance and repair work.

The surface protective methods covered by this standard are the following:

- **hydrophobic impregnation;**
- **impregnation;**
- **coating.**

Enhancing Concrete Durability

- “Penetrating sealers”
- U.S. classification
 - Pore liners
 - Silanes, siloxanes or mixture
 - Pore blockers
 - Fatty acids such as linseed or soybean oil
 - Surface densifiers
 - Silicates (lithium or sodium) and silicofluorides
 - Surface coating
 - Epoxies, acrylic paints,...

Ref: article in ACI Materials Journal, V/ 118, N°5, September 2021. “Influence of Penetrating Sealer on Performance of Concrete Joints” by Goran Adil, John T. Kevern and Danny X. Xiao

PROGRAMME

Pavement Preservation and Sustainability Benefits of Using Dual and Multi-Crystalline Technologies

Mr. Michael E. Ayers, President, Global Pavement Consultants, Inc. and

Mr. Radi Al-Rashed, President & CEO,
International Chem-Crete Co.

Influence of Hydrophobic Impregnation on Resistance of Road Concrete to De-Icing Salts

Mrs. Sylvie Smets, Researcher - Technology
Advisor, Belgian Road Research Center

Q&A

Conclusions and closing remarks



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Thank you for your participation!

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